

Claims

1. Combined preparation comprising as active ingredients at least one anti-infectiously active compound, which inhibits the 2-C-methylerythrose-4-metabolic pathway, and at least one inhibitor of the lipid metabolism, wherein the inhibitor of the lipid metabolism and the anti-infectiously active compound are not identical.
2. Combined preparation according to claim 1, characterized in that the inhibitors of lipid metabolism are selected from the group which consists of cholestyr amine, β -sitosterol, colestipol, probucol, nicotinic acid, nicotiny alcohol, clofibrin acid derivative and analogues of the clofibrin acid derivative, HMG-CoA-synthetase-inhibitors, HMG-CoA-reductase-inhibitors, squalene synthetase inhibitors and squalene monooxygenase inhibitors.
3. Combined preparation according to claim 2, characterized in that the inhibitors of lipid metabolism are inhibitors of the squalene synthetase, in particular pyrophosphates, pyrophosphate derivatives, bisphosphonic acid derivatives, phosphinylmethyl phosphonic acid derivatives, phosphinylformyl derivatives, phosphonocarboxyl derivatives, phosphonosulfonic acid derivatives, phosphinylmethylphosphonic acid derivatives.
4. Combined preparation according to claim 2, characterized in that the inhibitors of lipid metabolism are inhibitors of the HMG-CoA-reductase, in particular lovastatin, atorvastatin, mevastatin, simvastatin, fluvastatin, pravastatin and cerivastatin.
5. Combined preparation according to claim 2, characterized in that the inhibitors of lipid metabolism are clofibrin acid derivative and their analogues, in particular gemfibrozil, fenofibrate, bezafibrate, clofibrate, ciprofibrate and clinofibrate.
6. Combined preparation according to claim 2, characterized in that the inhibitors of the lipid metabolism are bisphosphonic acid derivative, in particular clodron acid derivatives, etidron acid derivatives, pamidron acid derivatives, in particular pamidronat, ibandron acid derivatives, in particular ibandronate, alendron acid derivatives, in particular alendronate, zoledron acid derivatives, in particular zoledronat, risedron acid derivatives, tiludron acid derivatives and cimadron acid derivatives.
7. Combined preparation according to one of claims 1 to 6, comprising as an active ingredient at least one aminohydrocarbyl phosphonic acid derivative of the general formula (I)

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wherein R_{I1} and R_{I2} are the same or different and are selected from the group which consists of H, OH, substituted and unsubstituted acyl, substituted and unsubstituted alkyl, substituted and unsubstituted aryl, substituted and unsubstituted cycloalkyl, substituted and unsubstituted aralkyl, and substituted and unsubstituted heterocyclic radical,

R_{I3} and R_{I4} are selected from the group which consists of substituted and unsubstituted alkyl with 1 to 26 carbon atoms, substituted and unsubstituted hydroxyalkyl with 1 to 26 carbon atoms, substituted and unsubstituted aryl, substituted and unsubstituted acyl, substituted and unsubstituted aralkyl, substituted and unsubstituted alkenyl with 1 to 26 carbon atoms, substituted and unsubstituted alkynyl with 1 to 26 carbon atoms, substituted and unsubstituted cycloalkyl, substituted and unsubstituted heterocyclic radical, halogen, X_{I3} and X_{I4} , wherein X_{I3} and X_{I4} are the same or different and are selected from the group which consists of hydrogen, substituted and unsubstituted alkyl with 1 to 26 carbon atoms, substituted and unsubstituted hydroxyalkyl with 1 to 26 carbon atoms, substituted and unsubstituted aryl, substituted and unsubstituted aralkyl, substituted and unsubstituted alkenyl with 1 to 26 carbon atoms, substituted and unsubstituted alkynyl with 1 to 26 carbon atoms, substituted and unsubstituted cycloalkyl, substituted and unsubstituted heterocyclic radical, a silyl, a cation of an organic and inorganic base, in particular a metal of the first, second or third main group of the periodic system, ammonium, substituted ammonium and ammonium compounds which derive from ethylene diamine or amino acids,, and

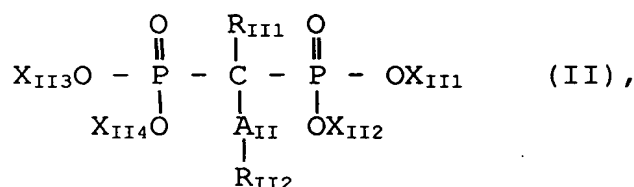
A_{I} represents an alkylene radical, alkenylene radical or hydroxyalkylene radical or corresponds to the following formula (IA):



wherein one or more the carbon atoms, selected from the group C_{I3} , C_{I4} , C_{I5} , together with their substituents also may be absent, and at least one present substituent out of B_{I1} to B_{I10} is a C_{3-8} -cycloalkyl- (C_{0-9}) -alkyl group, wherein the C_{3-8} -cycloalkyl group as well as the C_{0-9} -alkyl group may comprise one or more double bonds and one or two carbon atoms of the cycloalkyl group may be replaced by nitrogen, oxygen or sulfur atoms, and wherein the cycloalkyl group as well as the alkyl group may be substituted with hydroxy, halogen, amino, oxo groups, with branched or straight C_{1-9} -alkyl groups and C_{2-9} -alkenyl groups, wherein the C_{1-9} -alkyl groups and C_{2-9} -alkenyl groups may be substituted with hydrogen, hydroxy, amino, halogen and oxo groups, and the remaining present substituents B_{I1} to B_{I10} are selected from

the group which consists of hydrogen, hydroxy-, halogen-, amino groups, C₁₋₂₆-alkyl radicals, C₁₋₂₆-alkoxy radicals, C₁₋₂₆-alkoxy-C₁₋₂₆-alkyl radicals or both substituents a C-Atoms together form an oxo group, wherein each C₁₋₂₆-alkyl radical and each C₁₋₂₆-alkoxy radical may be branched or straight and saturated or unsaturated with one or more double bonds and may be substituted with hydroxy, amino, halogen and oxo groups.

8. Combined preparation according to one of the claims 1 to 6, comprising as an active ingredient at least one bisphosphonic acid according the general formula

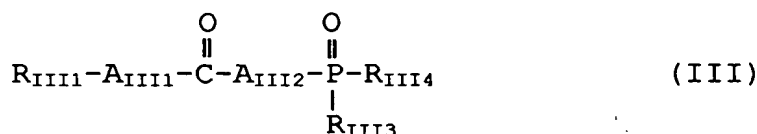


wherein X_{II1}, X_{II2}, X_{II3}, X_{II4}, which are the same or different, are selected from the group which consists of hydrogen, substituted and unsubstituted alkyl, substituted and unsubstituted aryl, substituted and unsubstituted aralkyl, substituted and unsubstituted cycloalkyl, substituted and unsubstituted heterocyclic radical, metals of the 1., 2. and 3. main group of the periodic systems, such as Na, K, Ca, Mg, Al as well as substituted and unsubstituted ammonium and ammonium compounds which derive from ethylene diamine or amino acids, A_{II} which also may be absent is selected from the group which consists of alkylene, alkenylene and hydroxyalkylene,

R_{II1}, R_{II2}, which are the same or different, are selected from the group which consists of H, OH, -NH₂, substituted and unsubstituted acyl, substituted and unsubstituted alkyl, substituted and unsubstituted aryl, substituted and unsubstituted cycloalkyl, substituted and unsubstituted aralkyl, substituted and unsubstituted heterocyclic radical and -SR_{II3}, Cl and -NR_{II3}R_{II4}, wherein

R_{II3}, R_{II4}, which are the same or different, are selected from the group which consists of H, OH, substituted and unsubstituted acyl, substituted and unsubstituted alkyl, substituted and unsubstituted aryl, substituted and unsubstituted aralkyl, substituted and unsubstituted cycloalkyl and substituted and unsubstituted heterocyclic radical, or their pharmaceutically acceptable salts, esters as well as salts of esters or compounds, which upon application provide the compounds to be administered as metabolic products or decomposition products.

9. Combined preparation according to one of claims 1 to 6, comprising as an active ingredient at least one compound of the general formula (III):



wherein R_{III} is selected from the group which consists of H, substituted and unsubstituted acyl, substituted and unsubstituted alkyl, substituted and unsubstituted hydroxyalkyl, substituted and unsubstituted alkenyl, substituted and unsubstituted alkynyl, substituted and unsubstituted aryl, substituted and unsubstituted cycloalkyl, substituted and unsubstituted aralkyl, substituted and unsubstituted heterocyclic radical, halogen and OX_{III1} , wherein X_{III1} is selected from the group which consists of hydrogen, substituted and unsubstituted acyl, substituted and unsubstituted alkyl, substituted and unsubstituted hydroxyalkyl, substituted and unsubstituted alkenyl, substituted and unsubstituted alkynyl, substituted and unsubstituted aryl, substituted and unsubstituted cycloalkyl, substituted and unsubstituted aralkyl, a silyl, substituted and unsubstituted heterocyclic radical, a cation of an organic and inorganic base, in particular a metal of the first, second or third main group of the periodic system, ammonium, substituted ammonium and ammonium compounds,

R_{III4} and R_{III3} are the same or different and are selected from the group which consists of hydrogen, substituted and unsubstituted acyl, substituted and unsubstituted alkyl, substituted and unsubstituted hydroxyalkyl, substituted and unsubstituted alkenyl, substituted and unsubstituted alkynyl, substituted and unsubstituted aryl, substituted and unsubstituted cycloalkyl, substituted and unsubstituted aralkyl, substituted and unsubstituted heterocyclic radical, halogen and OX_{III4} and OX_{III3} , wherein X_{III4} and X_{III3} are selected from the group which consists of hydrogen, substituted and unsubstituted alkyl, substituted and unsubstituted aryl, substituted and unsubstituted aralkyl, substituted and unsubstituted cycloalkyl, a silyl, substituted and unsubstituted heterocyclic radical, a cation of an organic and inorganic base, in particular a metal of the first, second or third main group of the periodic system, ammonium, substituted ammonium and ammonium compounds which derive from ethylene diamine or amino acids,, and

A_{III1} and A_{III2} , out of which one or both may be absent, are the same or different and represent a alkylene radical, alkenylene radical, an oxo radical, a hydroxy radical or oxo hydroxyalkylene radical.

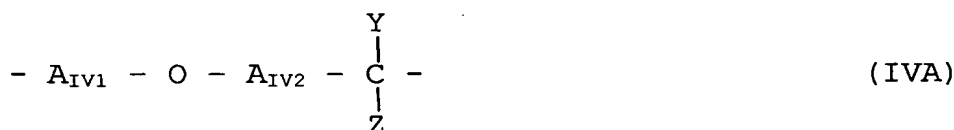
10. Combined preparation according to one of the claims 1 to 6, comprising as an active ingredient at least one compound the general formula (IV):



in which R_{IV1} and R_{IV2} are the same or different and are selected from the group which consists of hydrogen, substituted and unsubstituted alkyl, substituted and unsubstituted hydroxyalkyl, substituted and unsubstituted alkenyl, substituted and unsubstituted alkynyl, substituted and unsubstituted aryl, substituted and unsubstituted acyl, substituted and unsubstituted cycloalkyl, substituted and unsubstituted aralkyl, substituted and unsubstituted heterocyclic radical, halogen, OX_{IV1} and OX_{IV2} ;

wherein X_{IV1} and X_{IV2} are the same or different and are selected from the group which consists of hydrogen, substituted and unsubstituted alkyl, substituted and unsubstituted hydroxyalkyl, substituted and unsubstituted alkenyl, substituted and unsubstituted alkynyl, substituted and unsubstituted aryl, substituted and unsubstituted acyl, substituted and unsubstituted cycloalkyl, substituted and unsubstituted aralkyl, substituted and unsubstituted heterocyclic radical,

B_{IV} selected from the group which consists of the ether group (IVA)



wherein A_{IV1} and A_{IV2} , out of which A_{IV2} also may be absent, are the same or different and are selected from the group which consists of alkylene radical, alkenylene radical and hydroxyalkylene radical,

the keto group (IVB)



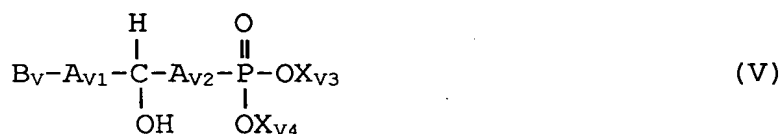
wherein A_{IV3} and A_{IV4} , out of which one or both also may be absent, are the same or different, are selected from the group which consists of alkylene radical, alkenylene radical and hydroxyalkylene radical,

and 5 and 6 membered cyclic, in particular heterocyclic compounds, which contain beside carbon at least one heteroatom as a ring member, wherein the heteroatom is selected from the group which consists of oxygen and nitrogen,

R_{IV3} and R_{IV4} are the same or different and are selected from the group which consists of hydrogen, substituted and unsubstituted alkyl having up to 26 carbon atoms, substituted and unsubstituted hydroxyalkyl having up to 26 carbon atoms, substituted and unsubstituted aryl, substituted and unsubstituted acyl, substituted and unsubstituted aralkyl, substituted and unsubstituted alkenyl having up to 26 carbon atoms, substituted and unsubstituted alkynyl having up to 26 carbon atoms, substituted and unsubstituted cycloalkyl, substituted and unsubstituted heterocyclic radical, halogen, OX_{IV3} or OX_{IV4} , wherein X_{IV3} or X_{IV4} are the same or

different and are selected from the group which consists of hydrogen, substituted and unsubstituted alkyl having up to 26 carbon atoms, substituted and unsubstituted hydroxyalkyl having up to 26 carbon atoms, substituted and unsubstituted aryl, substituted and unsubstituted aralkyl, substituted and unsubstituted alkenyl having up to 26 carbon atoms, substituted and unsubstituted alkynyl having up to 26 carbon atoms, substituted and unsubstituted cycloalkyl, substituted and unsubstituted heterocyclic radical, a Silyl, a cation of an organic and inorganic base, in particular a metal of the first, second or third main group of the periodic system, ammonium, substituted ammonium and ammonium compounds which derive from ethylene diamine or amino acids, and their pharmaceutically acceptable salts, esters and amides and salts of esters.

11. Combined preparation according to one of the claims 1 to 6, comprising as an active ingredient at least one phosphonic acid derivative of the general formula (V):



wherein A_{V1} and A_{V2} , out of which one or both may also be absent, are the same or different and are selected from the group which consists of an alkylene radical, an alkenylene radical and a hydroxyalkylene radical, and preferably the carbon chain $\text{-A}_{V1}\text{-CHOH-A}_{V2}\text{-}$ consists of 2 to 5 carbon atoms, particularly preferably of 3-4 carbon atoms,

B_V is selected from the group which consists of a radical of the formula (VA)



wherein R_{V1} is selected from the group which consists of hydrogen, OH, substituted and unsubstituted alkyl, substituted and unsubstituted hydroxyalkyl, substituted and unsubstituted alkenyl, substituted and unsubstituted alkynyl, substituted and unsubstituted aryl, substituted and unsubstituted acyl, substituted and unsubstituted cycloalkyl, substituted and unsubstituted aralkyl, substituted and unsubstituted heterocyclic radical and halogen, a radical of the formula (VB)



wherein R_{V2} , R_{V3} and R_{V4} are the same or different and are selected from the group which consists of hydrogen, substituted and unsubstituted alkyl, substituted and unsubstituted hydroxyalkyl, substituted and unsubstituted alkenyl, substituted and unsubstituted alkynyl, substituted and unsubstituted aryl, substituted and unsubstituted acyl, substituted and unsubstituted cycloalkyl, substituted and unsubstituted aralkyl, substituted and unsubstituted heterocyclic radical, halogen, and a radical of the formula (VC)



wherein R_{V5} , R_{V6} and R_{V7} are the same or different and are selected from the group which consists of hydrogen, OH, substituted and unsubstituted alkyl, substituted and unsubstituted hydroxyalkyl, substituted and unsubstituted alkenyl, substituted and unsubstituted alkynyl, substituted and unsubstituted aryl, substituted and unsubstituted acyl, substituted and unsubstituted cycloalkyl, substituted and unsubstituted aralkyl, substituted and unsubstituted heterocyclic radical, halogen,

wherein X_{V3} or X_{V4} are the same or different and are selected from the group which consists of hydrogen, substituted and unsubstituted alkyl, substituted and unsubstituted hydroxyalkyl, substituted and unsubstituted aryl, substituted and unsubstituted aralkyl, substituted and unsubstituted alkenyl, substituted and unsubstituted alkynyl, substituted and unsubstituted cycloalkyl, substituted and unsubstituted heterocyclic radical, a silyl, a cation of an organic and inorganic base, in particular a metal of the first, second or third main group of the periodic system, ammonium, substituted ammonium and ammonium compounds which derive from ethylene diamine or amino acids,, and their pharmaceutically acceptable salts, esters and amides and salts of esters.

12. Combined preparation according to one of the claims 1 to 6, comprising as an active ingredient at least one compound of the general formula (VI):

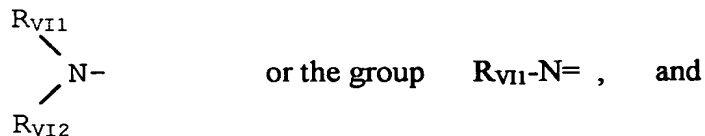


wherein R_{VI3} and R_{VI4} are the same or different and are selected from the group which con-

wherein X_{VI3} or X_{VI4} are the same or different and are selected from the group which consists of hydrogen, substituted and unsubstituted alkyl having up to 26 carbon atoms, substituted and unsubstituted hydroxyalkyl having up to 26 carbon atoms, substituted and unsubstituted aryl, substituted and unsubstituted aralkyl, substituted and unsubstituted alkenyl having up to 26 carbon atoms, substituted and unsubstituted alkynyl having up to 26 carbon atoms, substituted and unsubstituted cycloalkyl, substituted and unsubstituted heterocyclic radical, a silyl, a cation of an organic and inorganic base, in particular a metal of the first, second or third main group of the periodic system, ammonium, substituted ammonium and ammonium compounds which derive from ethylene diamine or amino acids, and B_{VI} is selected from the group which consists of the group (VIA)



wherein A_{VI} is selected from the group which consists of an alkyleneamine radical, an alkenyleneamine radical, a hydroxyalkyleneamine radical, an alkyleneimine radical, an alkenyleneimine radical and a hydroxyalkyleneimine radical, wherein the nitrogen atom is a member of the chain, which connects the phosphorus atom with the nitrogen atom of the group



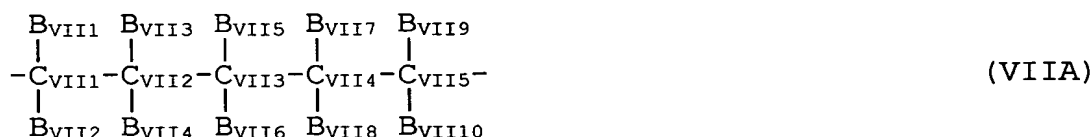
wherein R_{VI1} and R_{VI2} in group (VIA) are the same or different and R_{VI1} and R_{VI2} in group (VIA) and R_{VI1} in group (VIB) are selected from the group which consists of hydrogen, substituted and unsubstituted alkyl, substituted and unsubstituted hydroxyalkyl, substituted and

unsubstituted alkenyl, substituted and unsubstituted alkynyl, substituted and unsubstituted aryl, substituted and unsubstituted acyl, substituted and unsubstituted cycloalkyl, substituted and unsubstituted aralkyl, substituted and unsubstituted heterocyclic radical, halogen, OX_{VII} and OX_{VII2} , wherein X_{VII} and X_{VII2} are the same or different and are selected from the group which consists of hydrogen, substituted and unsubstituted alkyl, substituted and unsubstituted hydroxyalkyl, substituted and unsubstituted alkenyl, substituted and unsubstituted alkynyl, substituted and unsubstituted aryl, substituted and unsubstituted acyl, substituted and unsubstituted cycloalkyl, substituted and unsubstituted aralkyl, substituted and unsubstituted heterocyclic radical, or their pharmaceutically acceptable salts, esters and amides and salts of esters.

13. Combined preparation according to one of the claims 1 to 6, comprising as an active ingredient at least one compound the general formula (VII):



in which A_{VII} selected from the group which consists of a (C_{1-9}) -alkylene radical, which may contain one or more double bonds and may be substituted with hydroxy, halogen, amino, oxo groups, with branched or straight C_{1-9} -alkyl groups and C_{2-9} -alkenyl- groups, wherein the C_{1-9} -alkyl groups and C_{2-9} -alkenyl groups may be substituted with hydrogen, hydroxy, amino, halogen and oxo groups, $-C-O-C-$ and $-C-N-C-$, wherein the carbon atoms of $-C-O-C-$ and $-C-N-C-$ may be substituted with an alkyl having up to 7 carbon atoms or hydroxy groups, or in which A_{VII} corresponds to the following formula (VIIA):



wherein one or more carbon atoms, selected from the group C_{VII3} , C_{VII4} , C_{VII5} , together with their substituents may be absent, and at least one present substitute of B_{VII1} to B_{VII10} is a C_{3-8} -cycloalkyl- (C_{0-9}) -alkyl group, wherein the C_{3-8} -cycloalkyl group as well as the C_{0-9} -alkyl group may comprise one or more double bonds and one or two carbon atoms of the cycloalkyl group may be replaced by nitrogen, oxygen or sulfur atoms, and wherein the cycloalkyl group as well as the alkyl group may be substituted with hydroxy, halogen, amino, oxo groups with branched or straight C_{1-9} -alkyl groups and C_{2-9} -alkenyl groups, wherein the C_{1-9} -alkyl groups and C_{2-9} -alkenyl groups may be substituted with hydrogen, hydroxy, amino, halogen and oxo groups, and the remaining present substituents B_{VII1} to B_{VII10} are selected from the group which consists of hydrogen, hydroxy, halogen, amino groups, C_{1-26} -alkyl radicals, C_{1-26} -alkoxy radicals, C_{1-26} -alkoxy- C_{1-26} -alkyl radicals or both substituents of one C-atom together

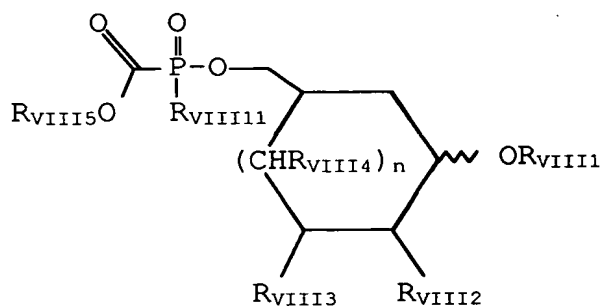
form an oxo group, wherein each C₁₋₂₆-alkyl radical and each C₁₋₂₆-alkoxy radical is branched or straight and saturated or unsaturated with one or more double bonds and may be substituted with hydroxy, amino, halogen and oxo groups,

wherein R_{VIII} selected from the group which consists of 5 and 6 membered heterocycles with one or two nitrogen, oxygen or sulfur atoms in the ring, wherein the heterocycle may be saturated or unsaturated with one or more double or triple bond and may be substituted with hydroxy, halogen, amino, oxo groups and with branched or straight C₁₋₉-alkyl groups and C₂₋₉-alkenyl groups, wherein the C₁₋₉-alkyl groups and C₂₋₉-alkenyl groups may be saturated or unsaturated with one or more double or triple bonds and may be substituted with hydrogen, hydroxy, amino, halogen and oxo groups,

wherein R_{VII3} and R_{VII4} are the same or different and are selected from the group which consists of hydrogen, substituted and unsubstituted C₁₋₂₆-alkyl, hydroxy-C₁₋₂₆-alkyl, substituted and unsubstituted aryl, substituted and unsubstituted acyl, substituted and unsubstituted aralkyl, substituted and unsubstituted C₁₋₂₆-alkenyl, substituted and unsubstituted C₁₋₂₆-alkynyl, substituted and unsubstituted cycloalkyl, substituted and unsubstituted heterocyclic radical, halogen, OX_{VII3} and OX_{VII4},

wherein X_{VII3} and X_{VII4} are the same or different and are selected from the group which consists of hydrogen, substituted and unsubstituted C₁₋₂₆-alkyl, substituted and unsubstituted hydroxy-C₁₋₂₆-alkyl, substituted and unsubstituted aryl, substituted and unsubstituted aralkyl, substituted and unsubstituted C₁₋₂₆-alkenyl, substituted and unsubstituted C₁₋₂₆-alkynyl, substituted and unsubstituted cycloalkyl, substituted and unsubstituted heterocyclic radical, a silyl, a cation of an organic and inorganic base, in particular a metal of the first, second or third main group of the periodic system, ammonium, substituted ammonium and ammonium compounds which derive from ethylene diamine or amino acids, and their pharmaceutically acceptable salts, esters and amides and salts of esters.

14. Combined preparation according to one of the claims 1 to 6, comprising as an active ingredient at least one compound of the general formula (VIII):



wherein the wavy line represents a bond, which either has α - or β -configuration, n is 0 or 1,

wherein R_{VIII11} is selected from the group which consists of substituted and unsubstituted C_{1-26} -alkyl, hydroxy- C_{1-26} -alkyl, substituted and unsubstituted aryl, substituted and unsubstituted acyl, substituted and unsubstituted aralkyl, substituted and unsubstituted C_{1-26} -alkenyl, substituted and unsubstituted C_{1-26} -alkynyl, substituted and unsubstituted cycloalkyl, substituted and unsubstituted heterocyclic radical, halogen and OX_{VIII11} ,

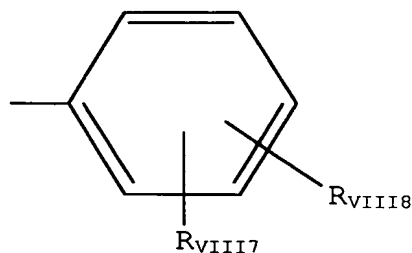
wherein X_{VIII11} is selected from the group which consists of hydrogen, substituted and unsubstituted C_{1-26} -alkyl, substituted and unsubstituted hydroxy- C_{1-26} -alkyl, substituted and unsubstituted aryl, substituted and unsubstituted aralkyl, substituted and unsubstituted C_{1-26} -alkenyl, substituted and unsubstituted C_{1-26} -alkynyl, substituted and unsubstituted cycloalkyl, substituted and unsubstituted heterocyclic radical, a silyl, a cation of an organic and inorganic base, in particular a metal of the first, second or third main group of the periodic system, ammonium, substituted ammonium and ammonium compounds which derive from ethylene diamine or amino acids,,

R_{VIII1} is selected from the group which consists of C_{1-24} -alkyl radicals, C_{2-24} -alkenyl radicals, C_{2-24} -alkapolyenyl radicals containing 2 to 6 double bonds, C_{2-24} -alkynyl radicals, C_{3-8} -cycloalkyl radicals, C_{3-8} -cycloalkyl- C_{1-24} -alkyl radicals and C_{1-12} -alkoxy- C_{1-12} -alkyl radicals,

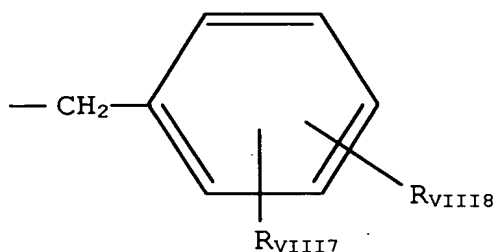
R_{VIII2} , R_{VIII3} and R_{VIII4} each are selected independently from the group which consists of hydrogen, halogen, amino, acetylamino, azido and XR_{VIII6} -groups, wherein X is O or S and R_{VIII6} is selected from the group which consists of a hydrogen radical, branched or straight C_{1-4} -alkyl radicals and C_{2-4} -alkenyl radicals, wherein the C_{1-4} -alkyl radicals as well as the C_{2-4} -alkenyl radicals may be optionally substituted with hydrogen, amino, halogen or oxo groups, or

R_{VIII2} , R_{VIII3} and R_{VIII4} together with the respective geminal hydrogen group represent an oxo group,

R_{VIII5} selected from the group which consists of hydrogen, C_{1-24} -alkyl groups, C_{3-8} -cycloalkyl radicals, $Ar(C_{1-24}$ -alkyl) groups, aryl groups, Acyl groups, heterocyclic radicals, halogen, wherein all radicals may be branched or straight and may be optionally be substituted with hydroxy, amino, halogen or oxo group and may contain 2 to 6 double and triple bonds or R_{VIII5} is a phenyl radical the formula VIIIA or XIIB,



(VIIIA)



(VIIIIB)

wherein $\text{R}_{\text{VIII}7}$ and $\text{R}_{\text{VIII}8}$ are the same or different and are bound to any two positions of the phenyl ring and each are selected independently from the group which consists of hydrogen, halogen, C_{1-4} -alkyl radicals, C_{1-4} -alkoxy radicals, formyl, acetyl, propionyl, butyryl radicals, formyl, acetyl, propionyl, butyryloxy radicals, C_{2-5} -alkoxycarbonyl radicals, which all may be branched or straight, or R_7 and $\text{R}_{\text{VIII}8}$ may form together a straight saturated alkylene chain with 3 to 4 carbon atoms, which are bound to adjacent positions, for example the 2,3-positions or the 3,4-positions of the phenyl ring, or R_7 and R_8 together form a methylenedioxy radical, a 1,1-ethylenedioxy radical or a 1,2-ethylenedioxy radical, which is bound to the 2,3- or 3,4-positions of the phenyl ring, or

$\text{R}_{\text{VIII}5}$ is selected from the group which consists of $\text{R}_{\text{VIII}9}\text{COOCHR}_{\text{VIII}10-}$ and

$\text{R}_{\text{VIII}9}\text{OCOOCHR}_{\text{VIII}10-}$,

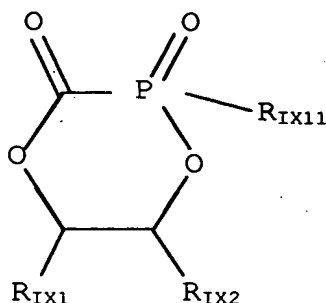
wherein $\text{R}_{\text{VIII}9}$ is selected from the group which consists of C_{1-6} -alkyl radicals, C_{2-6} -alkenyl radicals, C_{2-6} -alkynyl radicals, C_{3-8} -cycloalkyl radicals, C_{3-8} -cycloalkyl- C_{1-6} -alkyl radicals and C_{1-6} -alkoxy- C_{1-6} -alkyl radicals, wherein all radicals may be branched or straight and may be optionally substituted with hydroxy, amino, halogen or oxo groups, and

R_{10} is a branched or straight C_{1-4} -alkyl radical,

and wherein the configurations of the substituents $\text{R}_{\text{VIII}2}$, $\text{R}_{\text{VIII}3}$, $\text{R}_{\text{VIII}4}$ and

$\text{R}_{\text{VIII}5}\text{OOCPO}(\text{OH})\text{OCH}_2\text{—}$ in (VIII) is independently selected from D-gluco, L-gluco, D-galacto, L-galacto, D-manno, L-manno, D-talo, L-talo, D-allo, L-allo, D-altro, L-altro, D-gulo, L-gulo, D-ido or L-ido are, if n is 1 or the configurations of the substituents R_2 , R_3 and $\text{R}_5\text{OOCPO}(\text{OH})\text{OCH}_2\text{—}$ in I are independently D-ribo, L-ribo, D-arabino, L-arabino, D-xylo, L-Xxylo, D-lyxo or L-lyxo, if n is 0.

15. Combined preparation according to one of the claims 1 to 6, comprising as an active ingredient at least one compound the general formula (IX)



(IX)

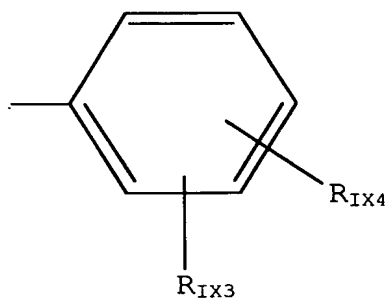
wherein R_{IX11} is selected from the group which consists of substituted and unsubstituted C_{1-26} -alkyl, hydroxy- C_{1-26} -alkyl, substituted and unsubstituted aryl, substituted and unsubstituted acyl, substituted and unsubstituted aralkyl, substituted and unsubstituted C_{1-26} -alkenyl, substituted and unsubstituted C_{1-26} -alkynyl, substituted and unsubstituted cycloalkyl, substituted and unsubstituted heterocyclic radical, halogen and OX_{IX11} ,

wherein X_{IX11} is selected from the group which consists of hydrogen, substituted and unsubstituted C_{1-26} -alkyl, substituted and unsubstituted hydroxy- C_{1-26} -alkyl, substituted and unsubstituted aryl, substituted and unsubstituted aralkyl, substituted and unsubstituted C_{1-26} -alkenyl, substituted and unsubstituted C_{1-26} -alkynyl, substituted and unsubstituted cycloalkyl, substituted and unsubstituted heterocyclic radical, a silyl, a cation of an organic and inorganic base, in particular a metal of the first, second or third main group of the periodic system, ammonium, substituted ammonium and ammonium compounds which derive from ethylene diamine or amino acids,,

wherein R_{IX1} and R_{IX2} each are selected independently from the group which consists of C_{1-24} -alkyl radicals, C_{3-8} -cycloalkyl radicals, C_{3-8} -cycloalkyl- C_{1-24} -alkyl radicals, C_{1-24} -alkoxy radicals, C_{1-24} -alkylthio- radicals, C_{1-24} -alkoxy- C_{1-24} -alkyl radicals and C_{1-24} -alkylthio- C_{1-24} -alkyl radicals, acyl radicals, aryl radicals, aralkyl radicals, heterocyclic radicals, halogen and hydrogen, and each C_{1-24} -alkyl radical and C_{1-24} -alkoxy radical may be branched or straight and saturated or unsaturated with 2 to 6 double bonds and optionally may be substituted with hydroxy, amino, mercapto, halogen, oxo groups or C_{1-24} -alkoxy radicals, C_{1-24} -alkylcarbonyloxy radicals, C_{1-24} -alkoxycarbonyloxy radicals, C_{1-24} -alkylthio radicals, C_{1-24} -alkylcarbonylthio radicals, C_{1-24} -alkylamino radicals, di- $(C_{1-24}$ -alkyl)amino radicals, C_{1-24} -alkylcarbonylamino radicals, C_{1-24} -alkyl- $(C_{1-24}$ -alkylcarbonyl)amino radicals, C_{1-24} -alkoxycarbonylamino radicals or C_{1-24} -alkyl- $(C_{1-24}$ -alkoxycarbonyl)amino radicals, wherein each aralkyl radical, heterocyclic radical, C_{1-24} -alkyl radical and C_{1-24} -alkoxy radical may be branched or straight and saturated or unsaturated with 2 to 6 double bonds or triple bonds, or wherein R_{IX1} -CH-CH- R_{IX2} form a part a C_{4-8} -carbon ring, which optionally may be substituted with hydroxy, mercapto, amino, halogen, oxo groups or with C_{1-24} -alkyl radicals, C_{1-24} -alkoxy radicals, C_{1-24} -alkylthio radicals, C_{1-24} -alkylamino radicals, Di- $(C_{1-24}$ -alkyl)amino- radicals, C_{1-24} -alkylcarbonyl radicals, C_{1-24} -alkylcarbonyloxy radicals, C_{1-24} -alkoxycarbonyl radicals, C_{1-24} -alkylcarbonylthio radicals or C_{1-24} -alkylcarbonylamino radicals, C_{1-24} -alkyl- $(C_{1-24}$ -

alkylcarbonyl)-amino radicals, wherein each C₁₋₂₄-alkyl radical may be branched or straight and saturated or unsaturated with 1 to 6 double bonds, or wherein R_{IX10} is a branched or straight C₁₋₄-alkyl radical, and wherein R_{IX1}-CH-CH-R_{IX2} form a part of the furanose or pyranose ring of a sugar, e.g. D-ribose, D-arabinose, D-xylose, D-lyxose, D-glucose, D-galactose, D-mannose, D-talose, D-allose, D-altrose, D-gulose, D-idose or the respective L-isomers, wherein the hydroxy groups each optionally may be substituted with hydrogen, amino, azido, oxo, mercapto radicals or C₁₋₂₄-alkoxy radicals, C₁₋₂₄-alkylthio radicals, C₁₋₂₄-alkylamino radicals, di-(C₁₋₂₄-alkyl)amino radicals, C₁₋₂₄-alkylcarbonyloxy radicals, C₁₋₂₄-alkylcarbonylthio radicals, C₁₋₂₄-alkylcarbonylamino radicals, C₁₋₂₄-alkyl-(C₁₋₂₄-alkylcarbonyl)amino radicals, wherein each C₁₋₂₄-alkyl radical may be branched or straight and saturated or unsaturated with 1 to 6 double bonds, and their pharmaceutically acceptable salts, esters and amides and salts of esters as well as their optical isomers.

R_{IX1} and R_{IX2} each in particular may be selected independently from the group which consists of carboxyl radicals, carboxamido radicals, aryl radicals, aryloxycarbonyl radicals, aryl-C₁₋₂₄-alkyl radicals, C₁₋₂₄-alkoxycarbonyloxy radicals, C₁₋₂₄-alkylaminocarbonyl radicals, di-(C₁₋₂₄-alkyl)-aminocarbonyl radicals, aryl-C₁₋₂₄-alkoxycarbonyl radicals, aryl-C₁₋₂₄-alkylaminocarbonyl radicals, C₁₋₂₄-alkylcarbonyloxy-(C₁₋₄)alkylmethoxycarbonyl radicals, C₁₋₂₄-alkoxy-carbonyloxymethoxycarbonyl radicals, C₁₋₂₄-alkoxycarbonyl-oxy-(C₁₋₄-alkyl)-methoxycarbonyl, wherein each C₁₋₂₄-alkyl radical may be branched or straight and saturated or unsaturated with 2 to 6 double bonds, and each C₁₋₄-alkyl radical and C₁₋₂₄-alkoxy radical may be branched or straight and saturated or unsaturated, and each aryl radical of the formula IXA



(IXA)

wherein R_{IX3} and R_{IX4} are the same or different and each are selected from the group which consists of hydrogen, halogen, C₁₋₄-alkyl radicals, C₁₋₄-alkoxy radicals, formyl, acetyl, propionyl, butyryl radicals, formyl, acetyl, propionyl, butyryloxy radicals, C₁₋₄-alkoxycarbonyl radicals, which all may be branched or straight, or R_{IX3} and R_{IX4} together form a straight saturated alkylene chain with 3 to 4 carbon atoms, which are bound to adjacent positions of the phenyl ring or R_{IX3} and R_{IX4} together form a methylenedioxy radical, a 1,1-ethyldendioxy radical or a 1,2-ethylenedioxy radical, which is bound to adjacent positions of the phenyl ring.

16. Combined preparation according to one of the claims 1 to 6, comprising as an active ingredient at least one compound of the general formula (X):



wherein $\text{R}_{\text{X}1}$ is selected from the group which consists of hydrogen, substituted and unsubstituted C_{1-9} -alkyl, substituted and unsubstituted hydroxy- C_{1-9} -alkyl, substituted and unsubstituted C_{1-9} -alkenyl, substituted and unsubstituted C_{1-9} -alkynyl, substituted and unsubstituted aryl, substituted and unsubstituted acyl, substituted and unsubstituted cycloalkyl, substituted and unsubstituted aralkyl, substituted and unsubstituted heterocyclic radical, halogen and $\text{OX}_{\text{X}1}$,

wherein $\text{X}_{\text{X}1}$ selected from the group which consists of hydrogen, substituted and unsubstituted C_{1-9} -alkyl, substituted and unsubstituted hydroxy- C_{1-9} -alkyl, substituted and unsubstituted C_{1-9} -alkenyl, substituted and unsubstituted C_{1-9} -alkynyl, substituted and unsubstituted aryl, substituted and unsubstituted acyl, substituted and unsubstituted cycloalkyl, substituted and unsubstituted aralkyl, substituted and unsubstituted heterocyclic radical,

wherein $\text{R}_{\text{X}2}$ is selected from the group which consists of C_{1-26} -alkyl radicals, C_{1-26} -alkoxy radicals, C_{1-26} -alkoxy- C_{1-26} -alkyl- radicals, C_{3-8} -cycloalkyl- (C_{0-26}) -alkyl radicals, wherein one or two carbon atoms of the cycloalkyl group may be replaced by nitrogen, oxygen or sulfur atoms, each C_{3-26} -alkyl radical and each C_{3-26} -alkoxy radical branched or straight and each C_{3-8} -cycloalkyl radical, each C_{2-26} -alkyl radical and each C_{2-26} -alkoxy radical may be saturated or unsaturated with one or more double bonds and each C_{3-8} -cycloalkyl- radical, each C_{1-26} -alkyl radical and each C_{1-26} -alkoxy radical may be substituted with hydroxy, amino, halogen and oxo groups or by the carbyl group $\text{COR}_{\text{X}3}$,

wherein $\text{R}_{\text{X}3}$ is selected from the group which consists of substituted and unsubstituted C_{1-26} -alkyl, hydroxy- C_{1-26} -alkyl, substituted and unsubstituted aryl, substituted and unsubstituted acyl, substituted and unsubstituted aralkyl, substituted and unsubstituted C_{1-26} -alkenyl, substituted and unsubstituted C_{1-26} -alkynyl, substituted and unsubstituted cycloalkyl, substituted and unsubstituted heterocyclic radical, halogen and $\text{OX}_{\text{X}3}$,

wherein $\text{X}_{\text{X}3}$ are selected from the group which consists of hydrogen, substituted and unsubstituted C_{1-26} -alkyl, substituted and unsubstituted hydroxy- C_{1-26} -alkyl, substituted and unsubstituted aryl, substituted and unsubstituted aralkyl, substituted and unsubstituted C_{1-26} -alkenyl, substituted and unsubstituted C_{1-26} -alkynyl, substituted and unsubstituted cycloalkyl, substituted and unsubstituted heterocyclic radical, a silyl, a cation of an organic and inorganic base, in particular a metal of the first, second or third main group of the periodic system, ammonium, substituted ammonium and ammonium compounds which derive from ethylene diamine or amino acids.

17. Combined preparation according to one of the claims 1 to 6, comprising as an active ingredient at least one compound of the general formula (XI):



wherein Z_{XI} is a phosphorus atom or a sulfur atom,
in which A_{XI} is a straight C_{2-9} -alkylene chain with substituents which are the same or different and are selected from the group which consists of hydrogen, hydroxy, halogen, amino and oxo groups, C_{1-26} -alkyl radicals, C_{1-26} -alkoxy radicals, C_{1-26} -alkoxy- C_{1-26} -alkyl radicals or C_{3-8} -cycloalkyl- (C_{0-9}) -alkyl radicals, wherein each C_{1-26} -alkyl radical and each C_{1-26} -alkoxy radical may be branched or straight and saturated or unsaturated with one or more double bonds and may be substituted with hydroxy, amino, halogen and oxo groups and the C_{3-8} -cycloalkyl group as well as the C_{0-9} -alkyl group of the C_{3-8} -cycloalkyl- (C_{0-9}) -alkyl group may contain one or more double bonds and one or two carbon atoms of the cycloalkyl group may be replaced by nitrogen, oxygen or sulfur atoms, and wherein the cycloalkyl group as well as the alkyl group may be substituted with hydroxy, halogen, amino, oxo groups, with branched or straight C_{1-9} -alkyl groups and C_{2-9} -alkenyl groups wherein the C_{1-9} -alkyl groups and C_{2-9} -alkenyl groups may be substituted with hydrogen, hydroxy, amino, halogen and oxo groups, in which $\text{R}_{\text{XI}1}$ and $\text{R}_{\text{XI}2}$ are the same or different and are selected from the group which consists of hydrogen, substituted and unsubstituted C_{1-9} -alkyl, substituted and unsubstituted hydroxy- C_{1-9} -alkyl, substituted and unsubstituted C_{1-9} -alkenyl, substituted and unsubstituted C_{1-9} -alkynyl, substituted and unsubstituted aryl, substituted and unsubstituted acyl, substituted and unsubstituted cycloalkyl, substituted and unsubstituted aralkyl, substituted and unsubstituted heterocyclic radical, halogen, $\text{OX}_{\text{XI}1}$ and $\text{OX}_{\text{XI}2}$, wherein $\text{X}_{\text{XI}1}$ and $\text{X}_{\text{XI}2}$ are the same or different and selected from the group which consists of hydrogen, substituted and unsubstituted C_{1-9} -alkyl, substituted and unsubstituted hydroxy- C_{1-9} -alkyl, substituted and unsubstituted C_{1-9} -alkenyl, substituted and unsubstituted C_{1-9} -alkynyl, substituted and unsubstituted aryl, substituted and unsubstituted acyl, substituted and unsubstituted cycloalkyl, substituted and unsubstituted aralkyl, substituted and unsubstituted heterocyclic radical,
in the $\text{R}_{\text{XI}3}$ and $\text{R}_{\text{XI}4}$ are the same or different and are selected from the group which consists of substituted and unsubstituted C_{1-26} -alkyl, hydroxy- C_{1-26} -alkyl, substituted and unsubstituted aryl, substituted and unsubstituted acyl, substituted and unsubstituted aralkyl, substituted and unsubstituted C_{1-26} -alkenyl, substituted and unsubstituted C_{1-26} -alkynyl, substituted and unsubstituted cycloalkyl, substituted and unsubstituted heterocyclic radical, halogen, $\text{OX}_{\text{XI}3}$ and $\text{OX}_{\text{XI}4}$, wherein $\text{X}_{\text{XI}3}$ and $\text{X}_{\text{XI}4}$ are the same or different and are selected from the group which consists of hydrogen, substituted and unsubstituted C_{1-26} -alkyl, substituted and unsubstituted hydroxy- C_{1-26} -alkyl, substituted and unsubstituted aryl, substituted and unsubstituted aralkyl,

substituted and unsubstituted C₁₋₂₆-alkenyl, substituted and unsubstituted C₁₋₂₆-alkynyl, substituted and unsubstituted cycloalkyl, substituted and unsubstituted heterocyclic radical, a silyl, a cation of an organic and inorganic base, in particular a metal of the first, second or third main group of the periodic system, ammonium, substituted ammonium and ammonium compounds which derive from ethylene diamine or amino acids, and their pharmaceutically acceptable salts, esters and amides and salts of esters.

18. Combined preparation according to one of the claims 1 to 6, comprising as an active ingredient at least one compound the general formula (XII):



wherein A_{XII} is selected from the group which consists of hydrogen, substituted and unsubstituted C₁₋₂₈-alkyl radicals, substituted and unsubstituted alkoxy-(C₀₋₂₈)-alkyl radicals, substituted and unsubstituted cycloalkyl-(C₀₋₂₈)-alkyl radicals, substituted and unsubstituted cycloalkoxy-(C₀₋₂₈)-alkyl radicals, substituted and unsubstituted amino-(C₀₋₂₈)-alkyl radicals and substituted, unsubstituted thio-(C₀₋₂₈)-alkyl radicals and substituted or unsubstituted Acyl-(C₀₋₂₈)-alkyl radicals and halogen, wherein each alkyl radical, each alkoxy radical and each acyl radical may be branched or straight and each alkyl radical, each alkoxy radical, each acyl radical and each cycloalkyl group may be saturated or unsaturated with one or more double or triple bonds and one or two carbon atoms the cycloalkyl radicals may be replaced by nitrogen, oxygen or sulfur atoms,

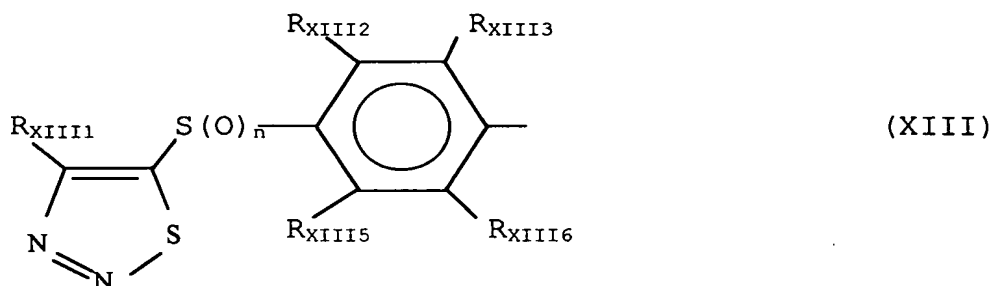
R_{XII3} selected from the group which consists of hydrogen, substituted and unsubstituted alkyl groups, substituted and unsubstituted alkoxy-(C₀₋₂₆)-alkyl radicals, substituted and unsubstituted C₃₋₁₄-cycloalkyl-(C₀₋₂₆)-alkyl radicals, substituted and unsubstituted cycloalkoxy-(C₀₋₂₆)-alkyl radicals, substituted and unsubstituted amino-(C₀₋₂₆)-alkyl radicals, substituted and unsubstituted silyl-(C₀₋₂₆)-alkyl radicals and substituted and unsubstituted thio-(C₀₋₂₆)-alkyl-groups, wherein each alkyl radical and each alkoxy radical may be branched or straight and each alkyl radical, each alkoxy radical and each cycloalkyl group may be saturated or unsaturated with one or more double or triple bonds and one or two carbon atoms of the cycloalkyl radicals may be replaced by nitrogen, oxygen or sulfur atoms,

or a carbon chain of two C-atoms in A_{XII} forms a ring together with R_{XII3} such that an isoxazolidone ring is formed, and

R_{XII4} is selected from the group which consists of hydrogen, substituted and unsubstituted alkyl radicals, substituted and unsubstituted acyl radicals and substituted and unsubstituted cycloalkyl-(C₀₋₂₆)-alkyl radicals, wherein each alkyl radical and each acyl radical may be branched or straight and each alkyl radical, each acyl radical and each cycloalkyl group may be saturated or unsaturated with one or more double or triple bonds and one or two carbon

atoms of the cycloalkyl radicals may be replaced by nitrogen, oxygen or sulfur atoms.

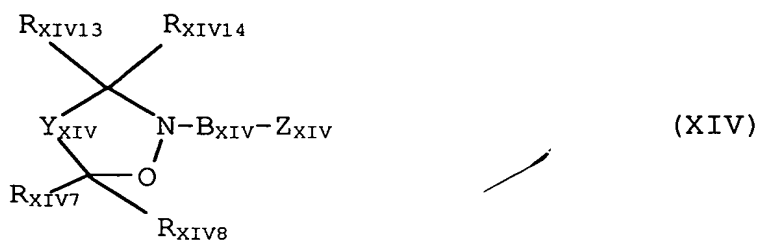
19. Combined preparation according to one of the claims 1 to 6, comprising as an active ingredient at least one compound the general formula (XIII) :



wherein n is an integer from 0 to 4, and

wherein R_{XIII1} , R_{XIII2} , R_{XIII3} , R_{XIII4} , R_{XIII5} and R_{XIII6} are the same or different and are selected from the group which consists of hydrogen, substituted and unsubstituted alkyl radicals, substituted and unsubstituted alkoxy radicals, substituted and unsubstituted acyl radicals, substituted or unsubstituted cycloalkyl-(C_{0-26})-alkyl radicals, substituted and unsubstituted cycloalkyl-(C_{0-26})-alkoxy radicals and halogen, wherein each alkyl radical, each alkoxy radical and each acyl radical may be branched or straight and each alkyl radical, each acyl radical, each alkoxy radical and each cyclo-(C_{0-26})-alkyl group may be saturated or unsaturated with one or more double or triple bonds and one or two carbon atoms of the cycloalkyl radicals may be replaced by nitrogen, oxygen or sulfur atoms.

20. Combined preparation according to one of the claims 1 to 6, comprising as an active ingredient at least one compound of the general formula (XIV):

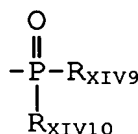


wherein Y_{XIV} is a C_{1-3} -alkenylene group, which is optionally substituted with the substituents R_{XIV1} and R_{XIV2} and optionally substituted with the substituents R_{XIV3} to R_{XIV6} ,

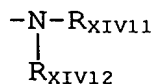
wherein R_{XIV1} to R_{XIV8} are the same or different and are selected from the group which consists of hydrogen, hydroxy, halogen, substituted and unsubstituted alkyl groups, substituted and unsubstituted cycloalkyl-(C_{0-26})-alkyl radicals, substituted and unsubstituted cycloalkoxy-(C_{0-26})-alkyl radicals, substituted and unsubstituted alkoxy-(C_{0-26})-alkyl radicals, substituted and

unsubstituted amino groups and substituted, unsubstituted thio-(C₀₋₂₆)-alkyl radicals, substituted and unsubstituted sulfonyl-(C₀₋₂₆)-alkyl radicals, substituted and unsubstituted sulfinyl-(C₀₋₂₆)-alkyl radicals and substituted or unsubstituted acyl radicals, wherein each alkyl radical, each alkoxy radical and each acyl radical may be branched or straight and each alkyl radical, each alkoxy radical and each cycloalkyl group may be saturated or unsaturated with one or more double or triple bonds and one or two carbon atoms of the cycloalkyl radicals may be replaced by nitrogen, oxygen or sulfur atoms and

R_{XIV13} and R_{XIV14} are defined the same as R_{XIV1} to R_{XIV8} or together form an oxo group, wherein Z_{XIV} represents the organophosphorus group



wherein R_{XIV9} and R_{XIV10} are the same or different and are selected from the group which consists of hydrogen, substituted and unsubstituted (C₁₋₂₆)-alkyl groups, substituted and unsubstituted hydroxy-(C₁₋₂₆)-alkyl radicals, substituted and unsubstituted cycloalkyl-(C₀₋₂₆)-alkyl radicals, substituted and unsubstituted acyl, halogen, OX_{XIV9} or OX_{XIV10}, wherein each alkyl radical, each alkoxy radical and each acyl radical branched or straight and each alkyl radical, each alkoxy radical and each cycloalkyl group may be saturated or unsaturated with one or more double or triple bonds and one or two carbon atoms the cycloalkyl radicals may be replaced by nitrogen, oxygen or sulfur atoms, wherein X_{XIV9} or X_{XIV10} are the same or different and are selected from the group which consists of hydrogen, substituted and unsubstituted (C₁₋₂₆)-alkyl groups, substituted and unsubstituted hydroxy-(C₁₋₂₆)-alkyl radicals, substituted and unsubstituted cycloalkyl-(C₀₋₂₆)-alkyl radicals, substituted and unsubstituted acyl a silyl, a cation of an organic and inorganic base, in particular a metal of the first, second or third main group of the periodic system, ammonium, substituted ammonium and ammonium compounds which derive from ethylene diamine or amino acids, wherein each alkyl radical, each alkoxy radical and each acyl radical may be branched or straight and each alkyl radical, each alkoxy radical and each cycloalkyl group may be saturated or unsaturated with one or more double or triple bonds and one or two carbon atoms of the cycloalkyl radicals may be replaced by nitrogen, oxygen or sulfur atoms, or wherein Z_{XIV} represents the amino group



wherein R_{XIV11} and R_{XIV12} are the same or different and are selected from the group which consists of hydrogen, substituted and unsubstituted alkyl groups, substituted and unsubstituted

cycloalkyl-(C₀₋₂₆)-alkyl radicals, substituted and unsubstituted cycloalkoxy-(C₀₋₂₆)-alkyl radicals, substituted and unsubstituted alkoxy-(C₀₋₂₆)-alkyl radicals and substituted or unsubstituted acyl radicals, wherein each alkyl radical, each alkoxy radical and each acyl radical branched or straight and each alkyl radical, each alkoxy radical and each cycloalkyl group may be saturated or unsaturated with one or more double or triple bonds and one or two carbon atoms of the cycloalkyl radicals may be replaced by nitrogen, oxygen or sulfur atoms, wherein B_{XIV} is selected from the group which consists of substituted and unsubstituted C₁₋₂₆-alkenylene groups, wherein one C-atom may be replaced by one oxygen atom and one C-atom by one sulfur atom or two C-atoms may be replaced by a S-hetrocycle and wherein each alkenylene radical may be branched or straight and saturated or unsaturated with one or more double or triple bonds and may be substituted with one or more hydroxy groups, halogen groups or oxo groups.

21. Use of lipid metabolism inhibitors according to one of the proceeding claims for the therapeutic and prophylactic treatment of infectious processöes in humans, animals and plants and as herbicides in plants. 94
22. Use according to claim 21, characterized in that the infectious processes are caused by unicellular or multicellular parasites, fungi, bacteria or viruses. 424
23. Use according to claim 21 or claim 22, characterized in that the processes are infectious processes in humans or animals.

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